



# **DVD Premium Series** Users Manual

www.microboards.com

Version 1.04

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## **System Overview**

The DVD Premium Series employs up to 10 General Purpose DVD-+R/DL recorders.

An intuitive, menu driven display and 5-button control interface provide one-touch operation for the novice user while providing advanced features for the professional.

Advanced Features:

- Stand-Alone DVD-+R/RW/DL / CD-R duplicator
- One Touch duplication
- Auto Run option
- Speed selectable (1x to 16x for DVD-+R and 4x to 48x for CD-R)
- Supports writing to DVD-+R/RW/DL, CD-R/RW
- Copy and Verify
- Counter feature allows the user to input how many discs need to be copied and the keeps track of the total discs completed.
- Automatically detects DVD or CD masters
- Simulation mode to ensure recording stability
- Easy-to-read, two-line display for status and error reporting
- Updates easily installed through DVD/CD reader

## Unpacking your system

When unpacking your duplicator, confirm the following items are included:

- DVD Premium Series duplicator
- Power cable
  - Starter Kit (includes User's Manual and Warranty information)

If any of these items are missing, please contact or Microboards Technology Technical Support at 952-556-1639.

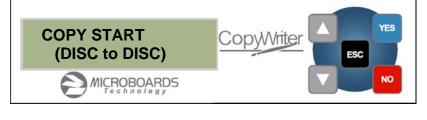
**IMPORTANT:** Please keep all the packing for your DVD Premium Series duplicator. If your unit ever needs to be sent in for service, it must be returned in the original packing or the warranty will be voided.

# **Microboards Statement Regarding Improper Duplication**

Microboards Technology fully supports the right of any business, organization, group, or individual to protect their property from unlicensed, unauthorized, or illegal duplication.

As a user of our equipment, we expect you to support that right as well.

Microboards Technology is neither responsible nor liable for the infringement of any laws regarding the illegal duplication of property. Microboards Technology products are in no way intended to encourage or condone such duplication.



## Installation Requirements

#### System Setup

- Connect the power cable to the DVD Premium Series tower and plug in to a protected power outlet strip or UPS power supply.
- Turn on power to the tower. The system is now ready to use.

Install your DVD Premium Series duplicator in the following environment:

- On a level and stable surface
- In a well ventilated location
- Temperature and humidity
- Temperature: 5-40°
- Humidity: 20-80%RH (no dew formation)

Do not install it in the following places:

- Under direct sunlight (If the machine is exposed to sunlight, the light should be blocked by a curtain or blind.)
- A dusty location
- A place where there is a lot of vibration
- Near open flame
- A place where the temperature and humidity change drastically
- Near a heating device such as a heater or furnace
- A location where air from an air conditioner blows directly onto the unit
- Near a container filled with water such as a vase

In winter during times of low humidity or in a location where static electricity is generated, use an anti-static-electricity mat or humidifier to prevent static electricity.

#### Power supply

- Use house current as the power source for the unit.
- Do not use an outlet near a motor driven appliance (i.e. air conditioner, copying machine).
- Use an outlet with stable power supply voltages.
- Do not overload an outlet. Do not use a service outlet from a PCs or other office machine.
- Wire the power cord properly.
- Do not touch the power cord with a wet hand.
- Be careful not to damage the power cord.

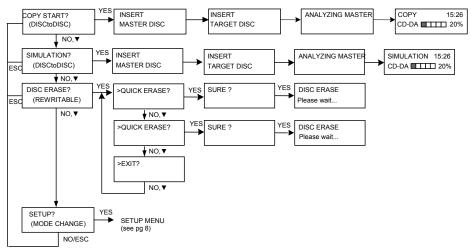
Inspect the power cord periodically. In the event that the power cord is damaged, replace the power cord.



Be sure to use a tool such as the screwdriver to change the 115/230V Switch. Do not use your finger.

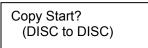
## Main Menu

The Arrow buttons ( $\mathbf{\nabla} \mathbf{A}$ )allow you to move forward or backward in the menu without selecting the current menu item. The NO button will move you to the next menu item. YES will select the current menu item.



# Copy Disc to Disc

- Place the Master Disc into the Reader drive. Place the blank disc(s) into the Recorder drive(s) and wait 10 seconds for the light(s) on the front of the Recorder(s) to stop blinking. Note that the blanks must be of the same media type as the master; you cannot copy a CD master to DVD's, for instance.
- 2. The display reads COPY START? (DISC to DISC).



- 3. Press YES. If you have the Auto Run feature set to ON, the duplication will begin when the master is loaded and all drives are loaded with blank media.
- 4. The drive trays will open on any recorder without blank discs installed. If you do not want to make a copy in those drives, close the tray(s), wait for the drive light to go out, and then press the YES button to start the copy job.
- 5. The display will now show the progress of the Copy Job.



6. The Recorder(s) will eject the recordable discs when the job is complete.

# Simulation Disc to Disc

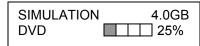
Important: Simulation is not allowed when using DVD+R/RW media.

1. At the COPY START? (DISC to DISC) menu, press the NO or ▼ button until the display shows SIMULATION? (DISC to DISC).

SIMULATION?? (DISC to DISC)

- 2. Place the Master Disc into the Reader drive
- 3. Place the blank disc(s) into the Recorder drive(s) and wait 10 seconds for the light(s) on the front of the Recorder(s) to stop blinking.
- 4. Press YES.

- 5. The drive trays will open on any recorder without blank discs installed. If you do not want to make a copy in those drives, close the tray(s), wait for the drive light to go out, and then press the YES button to start the copy job.
- 6. The display will now show the progress of the Simulation Copy Job



7. The Recorder(s) will eject the DVD-R discs when the job is complete.

Note: DVD-R media will NOT be recorded to in Simulation Mode.

## Erasing RW media

1. At the COPY START? (DISC to DISC) menu, press the NO or ▼ button until the display shows DISC ERASE? (REWRITABLE):



- 2. Load the Recorder(s) with the CD-RW or DVD-+RW media you wish to erase. You can erase one disc at a time or fill all the Recorders to erase multiple discs at once. All discs loaded must be of the same type.
- 3. Press the YES button
- 4. The next screen asks if you want to perform a Quick Erase.

QUICK ERASE?

If you wish to perform a Full Erase, press the NO button.

FULL ERASE?

Pressing the YES button at either of these selections will show the following screen:

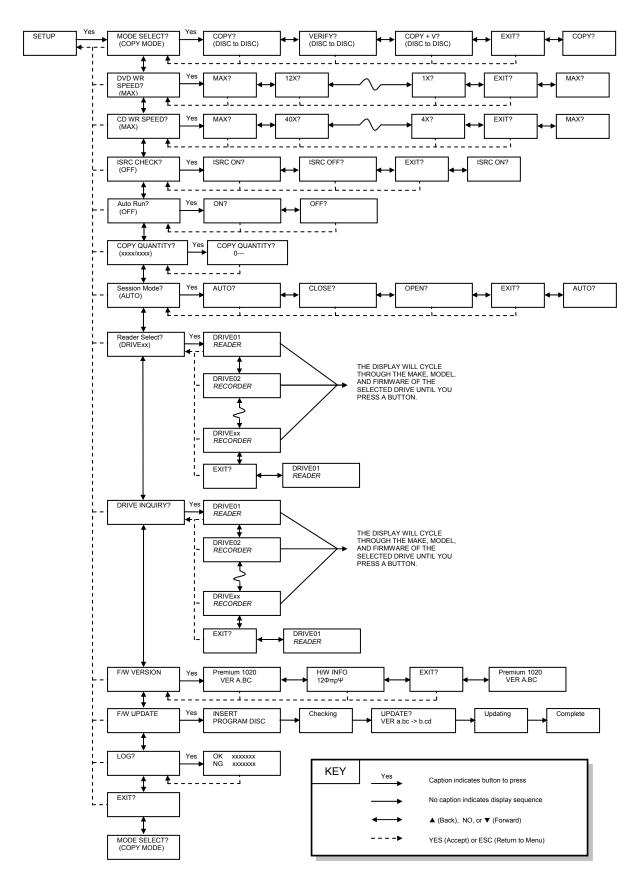
SURE?

- 5. Press the YES button if you are sure you want to erase the DVD-+RW disc. If you do not wish to erase the disc, press the NO button and you will go back to the DISC ERASE screen (step 1).
- 6. The screen will now show:

DISC ERASE

7. Once the erasing is complete, the Recorder(s) will eject the disc(s).

## Setup Menu



# Setup Menu

1. At the COPY START? (DISC to DISC) menu, press the NO or ▼ button until the display shows SETUP? (MODE CHANGE)

SETUP? (MODE CHANGE)

- 2. Press the YES button
- 3. The first setup option is Mode Select, followed by Write Speeds, ISRC Check, Copy Quantity, Session Mode, Drive Inquiry, Firmware Version and Exit.
- 4. Pressing the NO or ▼ button will allow you to move from menu to menu.
- 5. Pressing the YES button will allow you to view or change the configuration of the system.
- 6. Please follow the flow chart on page 8 to navigate through the different menus.

Here is a description of each setup menu item:

#### Mode Select

COPY - Duplication from master disc to blank disc. VERIFY - It compares a copied disc with the master disc. COPY+V - Copying in the COPY+VERIFY mode

#### **DVD WR Speed**

Available speeds range from 16x down to 1x.

#### **CD WR Speed**

Available speeds range from 48x down to 4x.

#### **ISRC Check**

Default setting is ON. This feature will copy the ISRC codes from the Master audio disc to the blank discs.

#### Auto Run

Default setting is OFF. When set to ON, this allows the duplicator to start the duplication process when all recorders are loaded with blank media. The master must also be loaded before duplication will begin.

#### Copy Quantity

>>COPY QUANTITY

Set up the number of disc you want to copy. 0750 Use the ▼▲ buttons to change the number in the current column up or down. YES will move you one column to the right, NO will move you 1 column to the left. Press YES when in the right column to save the number of copies entered. The example above shows that 750 copies have been entered with the cursor currently in the right column (underlined).

#### Session Mode (CD only. Invalid for DVD)

Select either from AUTO, CLOSE, or OPEN.

AUTO: Make the session of copied disc as same as the master.

CLOSE: Close the session of copied disc.

OPEN: Leave the session of copied disc open.

#### **Reader Select**

Changes which drive is selected as the reader. This setting should not be changed.

#### **Drive Inquiry**

Displays an inquiry of each drive connected, showing drive model and firmware.

#### F/W Version

Shows DVD Premium Series firmware version and H/W information.

#### F/W Update

Used when updating the firmware of the DVD Premium Series duplicator.

#### Log

Displays the number of successful and unsuccessful discs over the entire life of the duplicator.

# Error Codes

# **Read Errors**

ASC	ASCQ	Description		
00	00	NO ADDITIONAL SENSE INFORMATION		
00	06	I/O PROCESS TERMINATED, PLAY OPERATION ABORTED		
00	11	AUDIO PLAY OPERATION IN PROGRESS		
00	12	AUDIO PLAY OPERATION PAUSE		
00	13	AUDIO PLAY OPERATION SUCCESSFULLY COMPLETED		
00	14	AUDIO PLAY OPERATION STOPPED DUE TO ERROR		
00	15	NO CURRENT AUDIO STATUS TO RETURN		
00	13	CLEANINF REQUESTED		
01	00	NO INDEX/SECTOR SIGNAL		
02	00	NO SEEK COMPLETE		
04	00	LOGICAL UNIT NOT READY, CAUSE NOT REPORTABLE		
04	00	LOGICAL UNIT IS IN PROCESS OF BECOMING READY		
04	02	LOGICAL UNIT NOT READY, INITIALIZING CMD. REQUESTED		
04	02	LOGICAL UNIT NOT READY, MANUAL INTERVENTION REQUIRED		
04	07	LOGICAL UNIT NOT READY, OPERATION IN PROGRESS		
05	00	LOGICAL UNIT DOES NOT RESPOND TO SELECTION		
06	00	NO REFERENCE POSITION FOUND (medium may be upside down)		
08	00	LOGICAL UNIT COMMUNICATION FAILURE		
08	01	LOGICAL UNIT COMUNICATION TIMEOUT		
08	02	LOGICAL UNIT COMMUNICATION PARITY ERROR		
08	03	LOGICAL UNIT COMMUNICATION CRC ERROR (ULTRA-DMA/32)		
09	00	TRACK FOLLOWING ERROR		
09	01	TRACKING SERVO FAILURE		
09	02	FOCUS SERVO FAILURE		
09	03	SPINDLE SERVO FAILURE		
0A	00	ERROR LOG OVERFLOW		
0B	00	WARNING		
0B	01	WARNING-SPECIFIED TEMPERATURE EXCEEDED		
0B	02	WARNING-ENCLOSURE DEGRADED		
10	00	ID CRC OR ECC ERROR		
11	01	UNRECOVERED READ ERROR		
11	02	ERROR TOO LONG TO CORRECT		
11	05	L-EC UNCORRECTABLE ERROR		
11	06	CIRC UNRECOVERED ERROR		
11	0F	ERROR READING UPC/EAN NUMBER		
11	10	ERROR – LOSS PF STREAMING		
12	00	ADDRESS MARK NOT FOUND FOR ID FIELD		
13	00	ADDRESS MARK NOT FOUND FOR DATA FIELD		
14	01	RECORD NOT FOUND		
14	05	RECORD NOT FOUND – RECOMMEND REASSIGNMENT		
14	06	RECORD NOT FOUND – DATA AUTO – REALLOCATED		
15	00	RANDOM POSITIONING ERROR		
15	01	MECHANICAL POSITIONING ERROR		
15	02	POSITIONING ERROR DETECTED BY READ OF MEDIUM		
17	00	RECOVERED DATA WITH NO EEOR CORRECTION APPLIED		
17	01	RECOVERED DATA WITH RETRIES		
17	02	RECOVERED DATA WITH POSITIVE HEAD OFFSET		
		11		

1.0		
17	03	RECOVERED DATA WITH NEGATIVE HEAD OFFSET
17	04	RECOVERED DATA WITH RETIES AND/OR CIRC APPLIED
17	05	RECOVERED DATA USING PREVIOUS SECTOR ID
18	00	RECOVERED DATA WITH ERROR CORRECTION APPLIED
18	01	RECOVERED DATA WITH ERROR CORP. & RETRIES APPLIED
18	03	RECOVERED DATA WITH CIRC
18	04	RECOVERED DATA WITH L-EC
1A	00	PARAMETER LIST LENGTH ERROR
1B	00	SYNCHRONOUS DATA TRANSFER ERROR
1E	00	RECOVERED ID WITH ECC CORRECTION
20	00	INVALID COMMAND OPERATION CODE
21	00	LOGICAL BLOCK ADDRESS OUT OF RANGE
24	00	INVALID FIELD IN CDB
25	00	LOGICAL UNIT NOT SUPPORTED
25	00	INVALID FIELD IN PARAMETER LIST
20		PARAMETER NOT SUPPORTED
	01	
26	02	PARAMETER VALUE INVALID
26	03	THRESHOLD PARAMETERS NOT SUPPORTED
26	04	INVALID RELEASE OF ACTIVE PERSISTENT RESERVATION
28	00	NOT READY TO READY CHANGE, MEDIUM MAY HAVE CHANGED
29	00	POWER ON, RESET, OR BUS DEVICE RESET OCCURRED
29	01	POWER ON OCCURRED
29	02	SCSI BUS RESET OCCURRED
29	03	BUS DEVICE RESET FUNCTION OCCURRED
29	04	DEVICE INTERNAL RESET
2A	00	PARAMETERS CHANGED
2A	01	MODE PARAMETERS CHANGED
2A	02	LOG PARAMETERS CHANGED
2A	03	RESERVATIONS PREEMPTED
2B	00	COPY CANNOT EXECUSE SINCE HOST CANNOT DISCONNECT
2C	00	COMMAND SEQUENCE ERROR
2C	05	PERSISTENT PREVENT CONFLICT
2F	00	COMMANDS CLEARED BY ANOTHER INITIATOR
30	00	INCOMPATIBLE MEDIUM INSTALLED
30	01	CANNOT READ MEDIUM - UNKNOWN FORMAT
30	02	CANNOT READ MEDIUM – INCOMPATIBLE FORMAT
30	02	CLEASNING CARTRIDGE INSTALLED
35	00	ENCLOSURE SERVICES FAILURE
35	01	UNSUPPORTED ENCLOSURE FUNCTION
35	01	ENCLOSURE SERVICES UNAVAILABLE
35	03	ENCLOSURE SERVICES TRANSFER FAILURE
35	04	ENCLOSURE SERVICES TRANSFER REFUSED
39	00	SAVING PARAMETERS NOT SUPPORTED
3A	00	MEDIUM NOT PRESENT
3A	01	MEDIUM NOT PRESENT-TRAY CLOSED
3A	02	MEDIUM NOT PRESENT-TRAY OPEN
3B	0F	END OF MEDIUM REACHED
3B	11	MEDIUM MAGAZINE NOT ACCESSIBLE
3B	12	MEDIUM MAGAZINE REMOVED
3B	13	MEDIUM MAGAZINE INSERTED
3B	14	MEDIUM MAGAZINE LOCKED

3B 15 MEDIUM MAGAZINE UNLOCKED				
3B 16 MECHANICAL POSITIONING OR CHAN				
3D 00 INVALID BITS IN IDENTIFY MESSAGE				
3E 00 LOGICAL UNIT HAS NOT SELF-CONFIC	GURED YET			
3E 01 LOGICAL UNIT FAILURE				
3E 02 TIMEOUT ON LOGICAL UNIT				
3F 00 TARGET OPERATING CONDITIONS HA	VE CHANGED			
3F 01 MICROCODE HAS BEEN CHANGED				
3F 02 CHANGED OPERATING DEFINITION				
3F 03 INQUIRY DATA HAS CHANGED				
40 NN DIAGNOSTIC FAILURE ON COMPONEN	NT NN (80H-FFH)			
43 00 MESSAGE ERROR	· · · ·			
44 00 INTERNAL TARGET FAILURE				
45 00 SELECT OR RESELECT FAILURE				
46 00 UNSUCCESSFUL SOFT RESET				
47 00 SCSI PARITY ERROR				
48 00 INITIATOR DETECTED ERROR MESSAG	GE RECEIVED			
49 00 INVALID MESSAGE ERROR				
4A 00 COMMAND PHASE ERROR				
4B 00 DATA PHASE ERROR				
4C 00 LOGICAL UNIT FAILED SELF-CONFIGU	IRATION			
4E 00 OVAERLAPPED COMMANDS ATTEMPT	TAGGED OVERLAPPED COMMANDS (NN=QUEUE TAG)			
4L 60 60 VALALAT ED COMMANDS ATTEMI   53 00 MEDIA LOAD OR EJECTED FAILED				
53     60     MEDIA EGAD OK EJECTED TAILED       53     02     MEDIUM REMOVAL PREVENTED				
55 00 SYSTEM RESOURCE FAILURE				
57 00 UNABLE TO RECOVER TABLE-OF-CON	JTENTS			
5A 00 OPERATOR REQUEST OR STATE CHAN				
5A 01 OPERATOR MEDIUM REMOVAL REQU				
5B 00 LOG EXCEPTION				
5B     00     LOG EXCEPTION       5B     01     THRESHOLD CONDITION MET				
5B     01     ITTRESHOLD CONDITION MET       5B     02     LOG COUNTER AT MAXIMUM				
5B 02 LOG COUNTER AT MAXIMUM   5B 03 LOG LIST CODES EXHAUSTED				
	VCEEDED Dradietad Lagias			
5D 00 FAILURE PREDICTION THRESHOLD EX Unit Failure	CEEDED - Pledicied Logical			
5D 01 FAILURE PREDICTION THRESHOLD EX	VCEEDED Pradicted Madia			
Failure	ACEEDED - Predicted Media			
5D FF FAILURE PREDICTION THRESHOLD EX	XCEEDED (EALSE)			
	ACLEDED (FALSE)			
5E00LOW POWER CONDITION ON5E01IDLE CONDITION ACTIVATED BY TIME	ED			
5E 01 IDLE CONDITION ACTIVATED BY TIM 5E 02 STANDBY CONDITION ACTIVATED BY				
SE     02     STANDBY CONDITION ACTIVATED BY       5E     03     IDLE CONDITION ACTIVATED BY COM				
5E 04 STANDBY CONDITION ACTIVATED BY				
	END OF USER AREA ENCOUNTERED ON THIS TRACK PACKET DOES NOT FIT IN AVAILABLE SPACE			
	E SPACE			
64 00 ILLEGAL MODE FOR THIS TRACK				
65 00 VOLTAGE FAULT				
73 00 CD CONTROL ERROR				
80 xx VENDOR SPECIFIC				

# Write Errors

e Errors				
ASC	ASCQ	Description		
00	00	NO ADDITIONAL SENSE INFORMATION		
00	06	I/O PROCESS TERMINATED, PLAY OPERATION ABORTED		
00	11	AUDIO PLAY OPERATION IN PROGRESS		
00	12	AUDIO PLAY OPERATION PAUSED		
00	13	AUDIO PLAY OPERATION SUCCESSFULLY		
00	14	AUDIO PLAY OPERATION STOPPED DUE TO ERRPOR		
00	15	NO CURRENT AUDIO STATUS TO RETURN		
02	00	NO SEEK COMPLETE		
04	00	LOGICAL UNIT NOT READY, CAUSE NOT REPORTABLE		
04	01	LOGICAL UNIT IS IN PROCESS OF BECOMING READY		
04	02	LOGICAL UNIT NOT READY, INITIALIZING CMD. REQUIRED		
04	03	LOGICAL UNIT NOT READY, MANUAL INTERVENTION REQUIRED		
04	04	LOGICAL UNIT NOT READY, FORMAT IN PROGRESS		
04	07	LOGICAL UNIT NOT READY, OPERATION IN PROGRESS		
04	08	LOGICAL UNIT NOT READY, LONG WRITE IN PROGRESS		
05	00	LOGICAL UNIT DOES NOT RESPOND TO SELECTION		
06	00	NO REFERENCE POSITION FOUND		
08	00	LOGICAL UNIT COMMUNICATION FAILURE		
08	01	LOGICAL UNIT COMUUNICATION TIME-OUT		
08	02	LOGICAL UNIT COMMUNICATION PARITY ERROR		
08	03	LOGICAL UNIT COMMUNICATION CRC ERROR (ULTRA-DMA/32)		
09	00	TRACK FOLLOWING ERROR		
09	01	TRACKING SERVO FAILURE		
09	02	FOCUS SERVO FAILURE		
09	03	SPINDLE SERVO FAILURE		
0A	00	ERROR LOG OVERFLOW		
0B	00	WARNING		
0B	01	WARNING-SPECIFIED TEMPERATURE EXCEEDED		
0B	02	WARNING-ENCLOSURE DEGRADED		
0C	00	WRITE ERROR		
0C	02	WRITE ERROR-RECOVERED WITH AUTO REALLOCATION		
0C	03	WRITE ERROR-RECOMMEND REASSIGNMENT		
0C	07	WRITE ERROR-RECOVERY NEEDED		
0C	08	WRITE ERROR-RECOVERY FAILED		
0C	09	WRITE ERROR-LOSS OF STREAMING		
0C	0A	WRITE ERROR-PADDING BLOCKS ADDED		
11	00	UNRECOVERED READ ERROR		
11	06	CIRC UNRECOVERED ERROR		
15	00	RANDOM POSITIONING ERROR		
15	01	MECHANICAL POSITIONING ERROR		
15	02	POSITIONING ERROR DETECTED BY READ OF MEDIUM		
16	00	DATA SYNCHRONIZATION MARK ERROR		
16	01	DATA SYNC ERROR-DATA REWRITTEN		
16	02	DATA SYNC ERROR-RECOMMEND REWRITE		
16	03	DATA SYNC ERROR-DATA ATUO-REALLOCATED		
16	04	DATA SYNC ERROR-RECOMMEND REASSIGNMENT		
17	00	RECOVERED DATA WITH NO ERROR CORRECTION APPLIED		
17	01	RECOVERED DATA WITH RETRIES		
17	02	RECOVERED DATA WITH POSITIVE HEAD OFFSET		

17   03   RECOVERED DATA WITH REFIES AND/OR CIRC APPLIED     17   04   RECOVERED DATA WITH RETRES AND/OR CIRC APPLIED     17   05   RECOVERED DATA WITHOUT ECC - DATA AUTO-REALLOCATED     17   07   RECOVERED DATA WITHOUT ECC - DATA AUTO-REALLOCATED     17   08   RECOVERED DATA WITHOUT ECC - DATA REVRITTEN     18   00   RECOVERED DATA WITHOUT ECC - DATA REWRITTEN     18   00   RECOVERED DATA WITH ERROR CORR. & RETRIES APPLIED     18   01   RECOVERED DATA WITH ERROR CORR. & RETRIES APPLIED     18   02   RECOVERED DATA WITH CIRC     18   03   RECOVERED DATA A WITH CIRC     18   04   RECOVERED DATA - NECOMMEND REASIGNMENT     18   05   RECOVERED DATA - RECOMMEND REASIGNMENT     18   06   RECOVERED DATA - RECOMMEND REASIGNMENT     18   06   RECOVERED DATA - RECOMMEND REWRITE     19   01   DEFECT LIST NOT AVAILABLE     19   01   DEFECT LIST NOT AVAILABLE     19   03   DEFECT LIST ROR IN RIMARY LIST     19   03   DEFECT LIST NOT FOUND     10   DEFECT LIST NOT FOUND   C		r			
17   05   RECOVERED DATA USING PREVIOUS SECTOR ID     17   06   RECOVERED DATA WITHOUT ECC - DATA AUTO-REALLOCATED     17   07   RECOVERED DATA WITHOUT ECC - DATA REWRITE     17   08   RECOVERED DATA WITHOUT ECC - DATA REWRITE     17   08   RECOVERED DATA WITHOUT ECC - DATA REWRITEN     18   00   RECOVERED DATA WITH ERROR CORRECTION APPLIED     18   01   RECOVERED DATA WITH ERROR CORR. & RETRIES APPLIED     18   02   RECOVERED DATA AUTO-REALLOCATED     18   03   RECOVERED DATA AUTO-REALLOCATED     18   04   RECOVERED DATA - ACTO-MEND REASSIGNMENT     18   05   RECOVERED DATA - RECOMMEND REASSIGNMENT     18   06   RECOVERED DATA - RECOMMEND REWRITE     19   00   DEFECT LIST NOT AVAILABLE     19   01   DEFECT LIST NOT FOUND     19   01   DEFECT LIST ROR IN GROWN LIST     1A   00   DEFECT LIST ROR IN GROWN LIST     1A   00   DEFECT LIST NOT FOUND     10   DEFECT LIST NOT FOUND     110   00   MERCOVERDATA AUTO-READY     12   00 <t< td=""><td>17</td><td>03</td><td>RECOVERED DATA WITH NEGATIVE HEAD OFFSET</td></t<>	17	03	RECOVERED DATA WITH NEGATIVE HEAD OFFSET		
17   06   RECOVERED DATA WITHOUT ECC - DATA AUTO-REALLOCATED     17   07   RECOVERED DATA WITHOUT ECC - RECOMMEND     17   08   RECOVERED DATA WITHOUT ECC - RECOMMEND REWRITE     17   09   RECOVERED DATA WITHOUT ECC - ATA REWRITEN     18   00   RECOVERED DATA WITH ERROR CORRECTION APPLIED     18   01   RECOVERED DATA ATA HERROR CORR. & RETRIES APPLIED     18   02   RECOVERED DATA A TA AUTO-REALLOCATED     18   03   RECOVERED DATA ATA HERROR CORR. & RETRIES APPLIED     18   03   RECOVERED DATA ATA HERROR CORRECTION APPLIED     18   04   RECOVERED DATA A TA CROMEND REASSIGNMENT     18   05   RECOVERED DATA - RECOMMEND REWRITE     18   06   RECOVERED DATA A TA CROMEND REWRITE     18   07   RECOVERED DATA WITH ECC - DATA REWRITEN     19   00   DEFECT LIST NOT FAUNT     19   01   DEFECT LIST NOT AVAILABLE     19   02   DEFECT LIST NOT FOUND     10   DEFECT LIST NOT FOUND   IC     11   00   SYNCHRONOUS DATA TRANSFER ERROR     12   INVALID COMMAND OPERATION CODE   INVALID </td <td>17</td> <td>04</td> <td>RECOVERED DATA WITH RETRIES AND/OR CIRC APPLIED</td>	17	04	RECOVERED DATA WITH RETRIES AND/OR CIRC APPLIED		
17   07   RECOVERED DATA WITHOUT ECC - RECOMMEND REASSIGNMENT     17   08   RECOVERED DATA WITHOUT ECC - RECOMMEND REWRITE     17   09   RECOVERED DATA WITHOUT ECC - DATA REWRITTEN     18   00   RECOVERED DATA WITH ERROR CORRECTION APPLIED     18   01   RECOVERED DATA WITH ERROR CORR. & RETRIES APPLIED     18   02   RECOVERED DATA WITH CIRC     18   03   RECOVERED DATA WITH CIRC     18   04   RECOVERED DATA A TA COMMEND REASIGNMENT     18   05   RECOVERED DATA A TRICH CC - DATA REWRITTE     18   05   RECOVERED DATA WITH ECC - DATA REWRITEN     18   06   RECOVERED DATA A TRICH CC - DATA REWRITEN     19   00   DEFECT LIST NOT ERROR     19   01   DEFECT LIST ROR IN PRIMARY LIST     19   03   DEFECT LIST ROR IN PRIMARY LIST     19   03   DEFECT LIST NOT FOUND NEIST     10   DARAMETER LIST LENGTH FEROR     116   00   SYNCHRONOUS DATA TRANSFER ERROR     117   00   DEFECT LIST NOT FOUND     116   00   SWON DEFECT LIST NOT FOUND     117   DE <td>17</td> <td>05</td> <td>RECOVERED DATA USING PREVIOUS SECTOR ID</td>	17	05	RECOVERED DATA USING PREVIOUS SECTOR ID		
REASSIGNMENT       17     08     RECOVERED DATA WITHOUT ECC - RECOMMEND REWRITE       17     09     RECOVERED DATA WITHOUT ECC - DATA REWRITTEN       18     00     RECOVERED DATA WITH ERROR CORRECTION APPLIED       18     01     RECOVERED DATA WITH ERROR CORR. & RETRIES APPLIED       18     02     RECOVERED DATA WITH CIRC       18     04     RECOVERED DATA WITH LEC       18     04     RECOVERED DATA - RECOMMEND REASSIGNMENT       18     06     RECOVERED DATA - RECOMMEND REWRITE       18     07     RECOVERED DATA - RECOMMEND REWRITE       18     07     RECOVERED DATA WITH ECC - DATA REWRITEN       19     00     DEFECT LIST NOT FAULABLE       19     01     DEFECT LIST NOT AVAILABLE       19     02     DEFECT LIST NOT FOUND       10     DEFECT LIST NOT FOUND       11     00     DEFECT LIST NOT FOUND       110     09     ARAMETER LIST LENGT FIF ERROR       111     01     DEFECT LIST NOT FOUND       111     01     DEFECT LIST NOT FOUND       111     01     DEFECT	17	06	RECOVERED DATA WITHOUT ECC - DATA AUTO-REALLOCATED		
17   08   RECOVERED DATA WITHOUT ECC - RECOMMEND REWRITE     17   09   RECOVERED DATA WITH ERROR CORRECTION APPLIED     18   00   RECOVERED DATA WITH ERROR CORR. & RETRIES APPLIED     18   01   RECOVERED DATA WITH ERROR CORR. & RETRIES APPLIED     18   02   RECOVERED DATA AUTO-REALLOCATED     18   03   RECOVERED DATA WITH LCRC     18   04   RECOVERED DATA - RECOMMEND REASSIGNMENT     18   05   RECOVERED DATA - RECOMMEND REASSIGNMENT     18   06   RECOVERED DATA WITH LCC     18   07   RECOVERED DATA WITH HCC     18   06   RECOVERED DATA WITH HCC     18   07   RECOVERED DATA WITH HCC     19   00   DEFECT LIST NOT ERROR     19   01   DEFECT LIST NOT FORON     19   02   DEFECT LIST ROR IN PRIMARY LIST     19   03   DEFECT LIST NOT FOUND HEROR     10   DARAMETER LIST LENGTH HEROR     11   00   SYNCHRONOUS DATA TRANSFER ERROR     11C   01   DRICHABAND OFERATION     11C   01   DRICOMAND OFECT LIST NOT FOUND	17	07	RECOVERED DATA WITHOUT ECC - RECOMMEND		
17   09   RECOVERED DATA WITH EROR CORRECTION APPLIED     18   00   RECOVERED DATA WITH EROR CORRECTION APPLIED     18   01   RECOVERED DATA WITH EROR CORR. & RETRIES APPLIED     18   02   RECOVERED DATA WITH CIRC     18   04   RECOVERED DATA WITH CIRC     18   04   RECOVERED DATA - RECOMMEND REASSIGNMENT     18   06   RECOVERED DATA - RECOMMEND REASSIGNMENT     18   06   RECOVERED DATA - RECOMMEND REWRITE     19   00   DEFECT LIST NOT ERROR     19   01   DEFECT LIST NOT AVAILABLE     19   02   DEFECT LIST RROR IN NEIMARY LIST     19   03   DEFECT LIST RROR IN ROWN LIST     14   00   PARAMETER LIST LENGTH ERROR     16   00   SYNCHRONOUS DATA TRANSFER ERROR     17   00   DEFECT LIST NOT FOUND     18   00   SYNCHRONOUS DATA TRANSFER ERROR     10   01   DEFECT LIST NOT FOUND     11C   02   GROWN DEFECT LIST NOT FOUND     12   00   INVALID COMMAND OPERATION CODE     21   00   INVALID COMMAND OPERATION CODE			REASSIGNMENT		
18     00     RECOVERED DATA WITH ERROR CORR. & RETRIES APPLIED       18     01     RECOVERED DATA WITH ERROR CORR. & RETRIES APPLIED       18     02     RECOVERED DATA WITH ERROR CORR. & RETRIES APPLIED       18     03     RECOVERED DATA WITH CIRC       18     04     RECOVERED DATA WITH L-EC       18     05     RECOVERED DATA - RECOMMEND REASSIGNMENT       18     06     RECOVERED DATA - RECOMMEND REWRITE       18     07     RECOVERED DATA - RECOMMEND REWRITE       18     07     RECOVERED DATA - NECOMMEND REWRITE       18     07     RECOVERED DATA - NECOMMEND REWRITE       18     00     DEFECT LIST NOT FOROR       19     01     DEFECT LIST ROR IN PRIMARY LIST       19     03     DEFECT LIST NOT FOUND       16     00     SYNCHRONOUS DATA TRANSFER ERROR       10     0     MISCOMPARE DURING VERIFY OPERATION       10     0     MISCOMPARE DURING VERIFY OPERATION       10     0     MISCOMPARE DURING VERIFY OPERATION       11     00     INSCOMPARE DURING VERIFY OPERATION       12     00	17	08	RECOVERED DATA WITHOUT ECC - RECOMMEND REWRITE		
18   01   RECOVERED DATA WITH ERROR CORR. & RETRIES APPLIED     18   02   RECOVERED DATA - DATA AUTO-REALOCATED     18   03   RECOVERED DATA WITH CIRC     18   04   RECOVERED DATA WITH LEC     18   05   RECOVERED DATA - RECOMMEND REASSIGNMENT     18   06   RECOVERED DATA - RECOMMEND REWRITE     18   07   RECOVERED DATA WITH ECC - DATA REWRITEN     19   00   DEFECT LIST NOT ERROR     19   01   DEFECT LIST ERROR IN PRIMARY LIST     19   03   DEFECT LIST ERROR IN PRIMARY LIST     19   03   DEFECT LIST REROR IN PRIMARY LIST     19   03   DEFECT LIST NOT FOUND COMPANATION PARAMETER LIST LENGTH ERROR     10   0   SYNCHRONOUS DATA TRANSFER ERROR     11   0   DEFECT LIST NOT FOUND     12   0   DEFECT LIST NOT FOUND     13   0   GROWN DEFECT LIST NOT FOUND     14   00   DEFECT LIST NOT FOUND     15   00   INVALID COMMAND OPERATION CODE     21   00   INVALID COMMAND OPERATION CODE     21   00   INVALID DEDESS FOR WRITE <td>17</td> <td>09</td> <td>RECOVERED DATA WITHOUT ECC - DATA REWRITTEN</td>	17	09	RECOVERED DATA WITHOUT ECC - DATA REWRITTEN		
18   02   RECOVERED DATA · DATA AUTO-REALLOCATED     18   03   RECOVERED DATA WITH CIRC     18   04   RECOVERED DATA WITH LEC     18   05   RECOVERED DATA · RECOMMEND REASSIGNMENT     18   06   RECOVERED DATA · RECOMMEND REWRITE     18   06   RECOVERED DATA · RECOMMEND REWRITE     19   00   DEFECT LIST NOT ERROR     19   01   DEFECT LIST NOT ERROR     19   02   DEFECT LIST ERROR IN PRIMARY LIST     19   03   DEFECT LIST ERROR IN GROWN LIST     1A   00   PARAMETER LIST LENGTH ERROR     18   00   SYNCHRONOUS DATA TRANSFER ERROR     10   0   DEFECT LIST NOT FOUND     11   00   DEFECT LIST NOT FOUND     12   01   DEFECT LIST NOT FOUND     13   02   GROWN DEFECT LIST NOT FOUND     14   00   INVALID COMMAND OPERATION CODE     15   00   LOGICAL BLOCK ADDRESS OUT OF RANGE     21   02   INVALID ADDRESS FOR WRITE     24   00   INVALID FIELD IN CDB     25   00   LOGIC	18	00	RECOVERED DATA WITH ERROR CORRECTION APPLIED		
18   03   RECOVERED DATA WITH CIRC     18   04   RECOVERED DATA WITH L-EC     18   05   RECOVERED DATA - RECOMMEND REASSIGNMENT     18   06   RECOVERED DATA - RECOMMEND REWRITE     18   07   RECOVERED DATA WITH ECC - DATA REWRITTEN     19   00   DEFECT LIST NOT ERROR     19   01   DEFECT LIST ERROR IN PRIMARY LIST     19   03   DEFECT LIST ERROR IN GROWN LIST     14   00   PARAMETER LIST LENGTH ERROR     18   00   SYNCHRONOUS DATA TRANSFER ERROR     10   0   DEFECT LIST NOT FOUND     11   00   DEFECT LIST NOT FOUND     12   01   DEFECT LIST NOT FOUND     13   00   DEFECT LIST NOT FOUND     14   00   DEFECT LIST NOT FOUND     15   00   INVALID COMMAND OPERATION CODE     16   00   MIXALID COMMAND OPERATION CODE     21   00   INVALID ADDRESS FOR WRITE     24   00   INVALID FIELD IN CDB     25   00   LOGICAL BLOCK ADDRESS OUT OF RANGE     26   01   PARAMETER VA	18	01	RECOVERED DATA WITH ERROR CORR. & RETRIES APPLIED		
18   04   RECOVERED DATA - RECOMMEND REASSIGNMENT     18   05   RECOVERED DATA - RECOMMEND REWRITE     18   06   RECOVERED DATA - RECOMMEND REWRITE     18   07   RECOVERED DATA WITH ECC - DATA REWRITEN     19   00   DEFECT LIST NOT AVAILABLE     19   01   DEFECT LIST ERROR IN PRIMARY LIST     19   03   DEFECT LIST ERROR IN GROWN LIST     14   00   PARAMETER LIST LENGTH ERROR     16   00   SYNCHRONOUS DATA TRANSFER ERROR     110   00   DEFECT LIST NOT FOUND     111   01   PRIMARY DEFECT LIST NOT FOUND     111   01   PRIMARY DEFECT LIST NOT FOUND     111   02   GROWN DEFECT LIST NOT FOUND     111   01   PRIMARY DEFECT LIST NOT FOUND     111   02   GROWN DEFECT LIST NOT FOUND     111   00   MISCOMPARE DURING VERIFY OPERATION     111   00   MISCOMPARE DURING VERIFY OPERATION     111   02   INVALID ADDRESS FOR WRITE     111   02   INVALID ADDRESS FOR WRITE     111   02   INVALID ADDRESS FOR WRITE  <	18	02	RECOVERED DATA - DATA AUTO-REALLOCATED		
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2904DEVICE INTERNAL RESET2A00PARAMETERS CHANGED					
2A 00 PARAMETERS CHANGED					
2A 01 MODE PARAMETERS CHANGED		00	PARAMETERS CHANGED		
	2A	01	MODE PARAMETERS CHANGED		

	00				
2A	02	LOG PARAMETERS CHANGED			
2A	03	RESERVATIONS PREEMPTED			
2B	00	COPY CANNOT EXECUSE SINCE HOST CANNOT DISCONNECT			
2C	00	COMMAND SEQUENCE ERROR			
28	00	NOT READY TO READY CHANGE, MEDIUM MAY HAVE CHANGED			
29	00	POWER ON, RESET, OR BUS DEVICE RESET OCCURRED			
2A	00	PARAMETERS CHANGED			
2A	01	MODE PARAMETERS CHANGED			
2C	00	COMMAND SEQUENCE ERROR			
2C	03	CURRENT PROGRAM AREA IS NOT EMPTY			
2C	04	CURRENT PROGRAM AREA IS EMPTY			
2C	05	PERSISTENT PREVENT CONFLICT			
2E	00	INSUFFICIENT TIME FOR OPERATION			
2F	00	COMMANDS CLEARED BY ANOTHER INITIATOR			
30	00	INCOMPATIBLE MEDIUM INSTALLED			
30	01	CANNOT READ MEDIUM - UNKNOWN FORMAT			
30	02	CANNOT READ MEDIUM - INCOMPATIBLE FORMAT			
30	05	CANNOT WRITE MEDIUM - INCOMPATIBLE FORMAT			
30	06	CANNOT FORMAT MEDIUM - INCOMPATIBLE MEDIUM			
30	08	CANNOT WRITE - APPLICATION CODE MISMATCH			
30	09	CURRENT SESSION NOT FIXATED FOR APPEND			
31	00	MEDIUM FORMAT CORRUPTED			
31	01	FORMAT COMMAND FAILED			
32	00	NO DEFECT SPARE LOCATION AVAILABLE			
32	01	DEFECT LIST UPDATE FAILURE			
35	00	ENCLOSURE SERVICES FAILURE			
35	01				
35	01	UNSUPPORTED ENCLOSURE FUNCTION			
35	02	ENCLOSURE SERVICES UNAVAILABLE			
35	03	ENCLOSURE SERVICES TRANSFER FAILURE			
		ENCLOSURE SERVICES TRANSFER REFUSED			
37	00	ROUNDED PARAMETER			
39	00	SAVING PARAMETERS NOT SUPPORTED			
3A	00	MEDIUM NOT PRESENT			
3A	01	MEDIUM NOT PRESENT - TRAY CLOSED			
3A	02	MEDIUM NOT PRESENT - TRAY OPEN			
3D	00	INVALID BITS IN IDENTIFY MESSAGE			
3E	00	LOGICAL UNIT HAS NOT SELF-CONFIGURED YET			
3E	01	LOGICAL UNIT FAILURE			
3E	02	TIMEOUT ON LOGICAL UNIT			
3F	00	TARGET OPERATING CONDITIONS HAVE CHANGED			
3F	01	MICROCODE HAS BEEN CHANGED			
3F	02	CHANGED OPERATING DEFINITION			
3F	03	INQUIRY DATA HAS CHANGED			
40	NN	DIAGNOSTIC FAILURE ON COMPONENT NN (80H-FFH)			
43	00	MESSAGE ERROR			
44	00	INTERNAL TARGET FAILURE			
45	00	SELECT OR RESELECT FAILURE			
46	00	UNSUCCESSFUL SOFT RESET			
47	00	SCSI PARITY ERROR			
· · ·	00				
47	00	INITIATOR DETECTED ERROR MESSAGE RECEIVED			

	0.0				
4A	00	COMMAND PHASE ERROR			
4B	00	DATA PHASE ERROR			
4C	00	LOGICAL UNIT FAILED SELF-CONFIGURATION			
4D	NN	TAGGED OVERLAPPED COMMANDS (NN=QUEUE TAG)			
4E	00	OVAERLAPPED COMMANDS ATTEMPTED			
51	00	ERASE FAILURE			
51	01	ERASE FAILURE - Incomplete erase operation detected			
53	00	MEDIA LOAD OR EJECT FAILED			
53	02	MEDIUM REMOVAL PREVENTED			
55	00	SYSTEM RESOURCE FAILURE			
57	00	UNABLE TO RECOVER TABLE-OF-CONTENTS			
5A	00	OPERATOR REQUEST OR STATE CHANGE INPUT			
5A	01	OPERATOR MEDIUM REMOVAL REQUEST			
5A	02	OPERATOR SELECTED WRITE PROTECT			
5A	03	OPERATOR SELECTED WRITE PERMIT			
5B	00	LOG EXCEPTION			
5B	01	THRESHOLD CONDITION MET			
5B	02	LOG COUNTER AT MAXIMUM			
5B	03	LOG LIST CODES EXHAUSTED			
5D	00	FAILURE PREDICTION THRESHOLD EXCEEDED -			
5D	01	FAILURE PREDICTION THRESHOLD EXCEEDED - Predicted Media			
		Failure			
5D	03	FAILURE PREDICTION THRESHOLD EXCEEDED - Predicted Spare			
		Area Exhaustion			
5D	FF	FAILURE PREDICTION THRESHOLD EXCEEDED (FALSE)			
5E	00	LOW POWER CONDITION ON			
5E	01	IDLE CONDITION ACTIVATED BY TIMER			
5E	02	STANDBY CONDITION ACTIVATED BY COMMAND			
5E	03	IDLE CONDITION ACTIVATED BY COMMAND			
5E	04	STANDBY CONDITION ACTIVATED BY COMMAND			
63	00	END OF USER AREA ENCOUNTERED ON THIS TRACK			
64	00	ILLEGAL MODE FOR THIS TRACK			
64	01	INVALID PACKET SIZE			
65	00	VOLTAGE FAULT			
72	00	SESSION FIXATION ERROR			
72	01	SESSION FIXATION ERROR WRITING LEAD-IN			
72	02	SESSION FIXATION ERROR WRITING LEAD-OUT			
72	03	SESSION FIXATION ERROR - INCOMPATIBLE TRACK IN SESSION			
72	04	EMPTY OR PARTIALLY WRITTEN RESERVED TRACK			
72	05	NO MORE RZONE RESERVATIONS ARE ALLOWED			
73	00	CD CONTROL ERROR			
73	01	POWER CALIBRATIOIN AREA ALMOST FULL			
73	02	POWER CALIBRATION AREA IS FULL			
73	03	POWER CALIBRATION AREA ERROR			
73	04	PROGRAM MEMORY AREA UPDATE FAILURE			
73	05	PROGRAM MEMORY AREA/RMA IS FULL			
73	06	PROGRAM MEMORY AREA/RMA IS (almost) FULL			
B6	00	MEDIA LOAD/EJECT MECHANISM FAILED			
B0 B9	00	PLAY OPERATION ABORTED			
80	FF	VENDOR SPECIFIC			
00	11				

# **Specifications**

DVD Recorder Drive:	DVD-+R/RW/DL CD-R/RW Recorder
Power Source:	115V/230V 50-60Hz switchable power supply
Weight:	58 pounds
Dimensions:	7.48" (W) x 16.75" (D) x 24.5" (H)
Power supply:	400W
Environment:	Temperature: 40°C (104°F) / 5°C (41°F)
	Humidity: 20% - 80%

# **Supported Formats**

Recording format	CD	CD-ROM Mode 1, CD-ROM XA Mode 2 (form 1, form 2), Photo CD, CD-DA (Audio CD), CD-Extra, CD-R, CD-RW
	DVD	DVD-ROM, DVD-+R/RW/DL, DVD-VIDEO
	CD	700MB
Recording capacity (nominal)	DVD	4.7GB for General DVD
		8.3GB for Dual Layer
Applicable media	CD	CD-R, CD-RW
	DVD	DVD-+R, DVD-+RW, DVD-+R DL

# **Firmware Updates**

Occasionally it may be necessary to load updated firmware on to the DVD Premium Series duplicator. Only those firmware versions recommended and provided by Microboards Technical Support for this specific product should be installed. Installation of an incorrect firmware on any Microboards Technology product may result in any remaining warranty being voided.

# **Technical Support**

For technical questions or support issues, contact Microboards Technology technical support:

United States PH: 952-556-1639 FAX: 952-556-1628 support@microboards.com www.microboards.com Europe PH: +44 (0) 845 230 7800 www.microboards.co.uk Japan PH: 03-3561-2266 www.microboards.co.jp

Please have the Model and Serial Number of your duplicator available when contacting Technical Support.



Any unauthorized modification to this equipment may result in the revocation by the FCC of the user's authority to operate this equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and antenna
- Connect the equipment into an outlet on a circuit different than that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

CE

This product is in conformity with the EMC Directive (89/336/EEC) through compliance with the following European standards: EN 55022, EN 55024. The CE mark has been affixed in accordance with the CE Marking Directive 93/68/EEC.

#### Canadian Department of Communications (DOC) Statement

This Class B digital apparatus complies with the Canadian ICES-003 Issue 4:2004. Cet appareil numerique de la classe B est conforme a la norme <u>NMB-003</u> du Canade.